

**PRODUCTION OF ALPHA-OLEFIN OLIGOMER**

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**Abstract of JP11060511**

**PROBLEM TO BE SOLVED:** To provide a method for producing an  $\alpha$ -olefin oligomer such as of 1-hexene in remarkably high yield, selectivity, and productivity by subjecting  $\alpha$ -olefin to oligomerization reaction while preventing any side products from adhering to the wall of the reactor.  
**SOLUTION:** This method is to continuously produce an  $\alpha$ -olefin oligomer by subjecting  $\alpha$ -olefin to oligomerization reaction using a chrome-based catalyst, wherein there is used a reacting apparatus provided with a circulating flow channel running from a reactor to return thereto through the intermediary of a heat exchanger, the flow rate per hour through the channel is set to 3 to 10 times the quantity of the liquid remaining in the reactor, and the reaction is carried out under the condition that the temperature  $\theta$  of the refrigerant in the heat exchanger and the reaction temperature T satisfy the equation of  $100 \text{ deg.C} < \theta < T - 5 \text{ deg.C}$ .

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